

## **ABSTRACT**

A projector includes illumination optics for providing light beams, a light modulating apparatus for receiving and modulating the light beams, and a projection lens for projecting an image of the light beams received from the light modulating apparatus. The projector also includes a first adjusting device for adjusting a position of the illumination optics and a second adjusting device for adjusting a position of the projection lens in response to the adjustment of the position of the illumination optics for creating an offset of a position of the image projected by the projection lens.